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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/010,255	12/06/2001	Justinian Rosca	2001P23104 US	5641	
7590 07/28/2005			EXAMINER		
Siemens Corporation			PENDLETON, BRIAN T		
Intellectual Property Department 186 Wood Avenue South			ART UNIT	PAPER NUMBER	
Iselin, NJ 088	Iselin, NJ 08830			2644	
			DATE MAILED: 07/28/2005	DATE MAILED: 07/28/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/010,255	ROSCA ET AL.					
Office Action Summary	Examiner	Art Unit					
	Brian T. Pendleton	2644					
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a rep - If NO period for reply specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailir earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be timely within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 06 L	December 2001.						
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closed in accordance with the practice under	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims		•					
4) Claim(s) 1-20 is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) 14-19 is/are allowed.							
·_ , · · · <del>_</del>	· · · · · · · <del></del>						
Application Papers	,						
<u> </u>		·					
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on <u>06 December 2001</u> is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
<u> </u>	a priority under 25 LLC C S 440(a)	(4) (5)					
12)	1 phonty under 35 0.5.C. § 119(a)	-(a) or (1).					
1. Certified copies of the priority documen							
2. Certified copies of the priority documen	-						
3. Copies of the certified copies of the price		ed in this National Stage					
application from the International Burea							
* See the attached detailed Office action for a list	or the certified copies not receive	a.					
Attachment(s)							
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)							
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	te						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  Paper No(s)/Mail Date  5) Notice of Informal Patent Application (PTO-152)  6) Other:							

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#### **DETAILED ACTION**

# Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1 and 20 are rejected under 35 U.S.C. 102(b) as being anticipated by Baumhauer, Jr. et al, US Patent 5,515,445. Baumhauer discloses a method of balancing microphones comprising microphones 101 and 105 and DSP 104. The DSP comprises multipliers 120 and 121 for equalizing variances of the first channel and second channel, signum function 126, multiplier 128, and integrator 130 for recursively expressing means and variances of mixtures, and multiplier 111 for normalizing the second channel to a variance level similar to a variance of the first channel.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 10-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ngo et al, US Patent 5,694,474 in view of Feng et al, US Patent Application Publication US 2001/0031053. Ngo discloses a system for separating two audio channels A and B comprising delay parameter estimation module 20 for estimating a delay parameters for a plurality of data frames and generating separated outputs at 80 and 82, Ngo does not disclose a calibration module for the gain levels between the plurality of channels. Feng discloses a signal processing method and apparatus comprising microphones 22 and 24, dual delay lines 342, operation arrays 352, localization unit 360, extraction unit 380 and output device 90 in figure 10. The dual delay lines 342 contain multipliers 346 which are used to normalize gain levels between the plurality of channels. It would have been obvious to one of ordinary skill in the art at the time of invention to modify Ngo to have the calibration gain units of Feng for the purpose of improving the signal separation process.

#### Allowable Subject Matter

Claims 2-9 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 14-19 are allowed.

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian T. Pendleton whose telephone number is (571) 272-7527. The examiner can normally be reached on M-F 7-4:30.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Vivian Chin can be reached on (571) 272-7848. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Brian T. Pendleton

Examiner

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